First thoughts from review committee

HOM coupler designs

- Independent benchmarks & improvement (UK collaboration)
- Investigate fabrication tolerances (also UK help appreciated)
- FE calculations for both designs (SLAC help appreciated)

Engineering of He-vessel, tuner, cryomodule

- Collaboration with FNAL & UK

Project Management ₩P4 will follow-up

Single vendor €ERN will investigate alternate possibilities soon

Single cavity design for LHC ⊣nvestigation for DQW/RFD will be launched

The Next Six Months

Request from Niowave of the RF Surface (Past)

There is no official sign-off from CERN and the RF surface is not a release for starting fabrication drawings. Release of the RF surface is responsibility of USLARP. Available on EDMS

Certification & Verification (Now)

CERN requires as soon as possible material certificates, samples etc.. for approval prior to kick-off meeting.

Cavity 3D Models + Eng Spec (end of May 2014)

We expect to finalize he cavity 3D-model and all interfaces of DQW/RFD.

The approval and release will come from CERN.

CERN will detail the drawing procedure in the Eng. Spec.

Kick-off Meeting (Beginning Sept)

Purpose is to approve the fabrication drawings and define in detail the hold points to launch fabrication.

Next Steps (before end of May)

DQW/RFD

- Check RF surfaces
- Finalize port locations & all related calculations (heat loads, RF)
- Finalize and document manufacturing tolerances

FNAL/UK/USLARP

- Prepare the design file for both cavities including pressure analysis
- Check and provide feedback on the Eng. Specification with CERN

CERN

- Finalize engineering specifications
- Check design files from FNAL
- Release 3D models with final interfaces on EDMS
- One specification drawing/cavity
- Consolidate/optimize heat loads & infrastructure upgrade studies

Prior to Kick-Off Meeting

After release for 3D models from CERN, plan weekly report/meeting on progress of fabrications drawings

CERN will study samples and material certificates from Niowave. Will also check the certification of the various procedures as outlines in Eng. Spec.

CERN will define requirements for fabrication process, treatment and testing flow chart (with input from USLARP, UK & Niowave) within the scope of Eng. Spec.

CERN, USLARP & UK checks and feedback will be provided

Kick-Off Meeting

Format

- 1-day meeting (at US or CERN ∓TBC)
- We expect detailed manufacturing plan & drawings from Niowave
- CERN approves and defines the hold points during the fabrication
- T. Nicol link person to follow up the fabrication

Who needs to be there

- Niowave, CERN, T. Nicol, T. Jones & 1 representative for DQW/RFD

Outcome